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This file contains CAS Registry Numbers for easy and accurate substance identification.

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=> s amphotericin and pure
          7022 AMPHOTERICIN
        422650 PURE
L1          68 AMPHOTERICIN AND PURE

=> s l1 and chromatography
        310553 CHROMATOGRAPHY
L2           1 L1 AND CHROMATOGRAPHY

=> d l2 1 an ab

L2   ANSWER 1 OF 1  CA  COPYRIGHT 2006 ACS on STN
AN   135:142230  CA
AB   The invention discloses highly purified daptomycin and to pharmaceutical
     compns. comprising this compound  The invention discloses a method of
     purifying daptomycin comprising the sequential steps of anion exchange
     chromatog., hydrophobic interaction chromatog. and anion exchange
     chromatog.  The invention also discloses a method of purifying daptomycin
     by modified buffer enhanced anion exchange chromatog.  An improved method
     for producing daptomycin by fermentation of Streptomyces roseosporus is
     described.  The invention also discloses HPLC methods for anal. of
     daptomycin purity.  Methods of using lipopeptide micelles for purifying
     lipopeptide antibiotics, such as daptomycin, and using them
     therapeutically are disclosed.  Thus, daptomycin was produced in a fermentation
     culture of S. roseosporus and partially purified daptomycin (9.9 Kg) was
     purified by microfiltration from 5500 L of fermentation broth.  The partially
     purified daptomycin was further purified and resulted in a bulk daptomycin
     preparation with a purity of 91%.  The daptomycin preparation contained 14
     impurities as determined by HPLC anal.  The daptomycin preparation was applied
to a
     Poros P150 anion exchange resin (PE Biosystems) in Tris buffer pH 7.0
     containing 6M urea and allowed to bind to the resin.  The resin was washed
     with 3 column vols. of buffer prior to initiation of a NaCl gradient in
     the same buffer.  Alternatively, the contaminants can be effectively
     removed from the column with a fixed salt level of 30 mM NaCl.  The
     elution of purified daptomycin from the resin occurred at approx. 300 mM
     NaCl during a 0 to 1000 mM NaCl gradient.  Daptomycin eluted from the
     column was greater than 99% pure as measured by the "first" HPLC
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method. The purified daptomycin contained only one detectable daptomycin contaminant. Anhydrodaptomycin and B-isomer were undetectable (<0.01% contamination). The level of the unidentified contaminant was 0.1-0.5%.

=> d his

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FILE 'CA' ENTERED AT 15:46:08 ON 14 SEP 2006
L1 68 S AMPHOTERICIN AND PURE
L2 1 S L1 AND CHROMATOGRAPHY